ELSEVIER

Journal of Electroanalytical Chemistry 385 (1995) 287

JOURNAL OF ELECTROANALYTICAL CHEMISTRY

Author index

Andreoli, P. 265

Bácskai, J. 241
Bansal, V. 25
Becucci, L. 183
Beden, B. 77
Blakely, E.E. 157
Bond, A.M. 249
Bowyer, W.J. 157
Brainina, K.Z. 139
Bron, M. 105
Bukowska, J. 177

Cacchi, S. 235
Carelli, I. 235
Cattarin, S. 265
Chiarotto, I. 235
Clark, M.E. 157
Colton, R. 249
Compton, R.G. 143, 249
Czirók, E. 241

Dong, S. 227
Druliolle, H. 77

Eiswirth, M. 85
Eklund, J.C. 143, 249
El Belamachi, M.M. 33
Ertl, G. 85
Evans, D.H. 201

Fatouros, N. 33

Galus, Z. 95
Goyal, R.N. 25
Guaus, E. 121

Häring, P. 273
Heitbaum, J. 149
Holze, R. 105
Horányi, G. 63

Iida, T. 209
Ingram, J.L. 157
Inzelt, G. 241

Jackowska, K. 177
Jagasia, I.M. 171
Jalali-Heravi, M. 1
Jamkowski, M. 177

Kakiuchi, T. 135
Kamato, K. 209
Kaneko, M. 209
Kaviratna, P.D. 163
King, F. 45
Kissner, R. 71
Kokoh, K.B. 77
Kötz, R. 273
Kozmenko, O.A. 139
Krischer, K. 85
Krulic, D. 33
Kudelski, A. 177
Kulesza, P.J. 241

Lever, A.B.P. 191
Litke, C.D. 45
Lopez Teijelo, M. 39
Lübke, M. 85
Lust, E. 115

Mah, Y.A. 249
Maksymiuk, K. 95
Malik, M.A. 241
Martinusz, K. 241
Meyer, S. 139
Moncelli, M.R. 183
Musiani, M. 265

Namazian, M. 1
Nei, L. 249
Nikitas, P. 257

Opekar, F. 269

Pace, P. 235
Paolucci, F. 265
Pappa-Louisi, A. 257
Pärsimägi, P. 115
Pauporté, Th. 9
Peacock, T.E. 1
Pietro, W.J. 191
Pinheiro, J.P. 279
Pinnavaia, T.J. 163

Quinn, M.J. 45

Rebbitt, T.O. 143
Romanowski, S. 95
Rongfeng, Z. 201

Sanz, F. 121
Schlettwein, D. 209
Schmidt, V.M. 149
Scholz, F. 139
Schröder, U. 139
Schuhmann, D. 9
Sluyters, J.H. 121
Sluyters-Rehbach, M. 121
Sobolev, N.V. 139
Srivastava, A.K. 171
Svozil, D. 269

Tegtmeyer, D. 149
Tian, M. 227
Tsukamoto, M. 209

Uchida, I. 57

Väärtnõu, M. 115
Van Leeuwen, H.P. 279
Villullas, H.M. 39

Wasberg, M. 63
Wöhrle, D. 209
Wolf, W. 85

Xi, X. 227

Yamada, K. 57
Yoshida, T. 209

Zakharchuk, N.F. 139
Zhang, J. 191

ELSEVIER

Journal of Electroanalytical Chemistry 385 (1995) 289–292

JOURNAL OF ELECTROANALYTICAL CHEMISTRY

Subject index

Adatoms
Selective oxidation of lactose to lactobionic acid on lead-adatoms modified platinum electrodes in $Na_2CO_3 + NaHCO_3$ buffered medium (Druliolle et al.) 77

Adsorption potential shift
The surface potential shift upon adsorption at the air|solution and the uncharged Hg|solution interfaces (Nikitas, Pappa-Louisi) 257

Age determinations
The electrochemical response of radiation defects of non-conducting materials. An electrochemical access to age determinations (Scholz et al.) 139

Air exposure
Electric resistance in a Nafion® membrane exposed to air after a step change in the relative humidity (Opekar, Svozil) 269

Alcohols
Adsorption of Cl^- and Br^- ions on the (001) plane of a bismuth single crystal from solutions in 2-propanol (Väärtnõu et al.) 115

Aliphatic alcohol
Orientation of molecules of aliphatic alcohols adsorbed on a mercury electrode surface. Analysis of steric factors of inhibited electrode reactions and quantum-chemical calculations (Romanowski et al.) 95

p-Aminoazobenzene
SERS and resonance Raman studies of *p*-aminoazobenzene on gold and silver electrodes (Jamkowski et al.) 177

Aryl triflates
Palladium-catalysed electrochemical reduction of vinyl and aryl triflates (Chiarotto et al.) 235

Atomic copper
Surface copper immobilization by chelation of alizarin complexone and electrodeposition on graphite electrodes, and related hydrogen sulfide electrochemistry; matrix isolation of atomic copper and molecular copper sulfides on a graphite electrode (Zhang et al.) 191

Atomic force microscopy
Nanoscale thickness changes of nickel hydroxide films during electrochemical oxidation/reduction monitored by in situ atomic force microscopy (Häring, Kötz) 273

Bifurcation analysis
Modelling oscillations in galvanostatic H_2 oxidation at Pt in the presence of metal ions (Wolf et al.) 85

Binding constants
The intrinsic pK_a values for phosphatidic acid in monolayers deposited on mercury electrodes (Moncelli, Becucci) 183

Biomimetic membranes
The intrinsic pK_a values for phosphatidic acid in monolayers deposited on mercury electrodes (Moncelli, Becucci) 183

Bismuth single crystal
Adsorption of Cl^- and Br^- ions on the (001) plane of a bismuth single crystal from solutions in 2-propanol (Väärtnõu et al.) 115

Cavity interactions
Theoretical studies of electrode potentials in aqueous solution. Investigation of individual contributions from electrostatic, cavity and dispersion interactions to redox potentials (Jalali-Heravi et al.) 1

Channel electrode voltammetry
Channel electrode voltammetry and electrodimerization processes. The electro-oxidation of tris(dithiocarbamato)cobalt(III) complexes (Compton et al.) 249

CO_2
Selective electrocatalysis for CO_2 reduction in the aqueous phase using cobalt phthalocyanine/poly-4-vinylpyridine modified electrodes (Yoshida et al.) 209

CoPc
Selective electrocatalysis for CO_2 reduction in the aqueous phase using cobalt phthalocyanine/poly-4-vinylpyridine modified electrodes (Yoshida et al.) 209

Copper
Oxygen reduction on copper in neutral NaCl solution (King et al.) 45

Copper alizarin complexone
Surface copper immobilization by chelation of alizarin complexone and electrodeposition on graphite electrodes, and related hydrogen sulfide electrochemistry; matrix isolation of atomic copper and molecular copper sulfides on a graphite electrode (Zhang et al.) 191

Corrosion
Oxygen reduction on copper in neutral NaCl solution (King et al.) 45

Current–potential curves
A simple derivative method of analysing steady state current–potential curves (Kakiuchi) 135

Cyanate adsorption
Cyanate and thiocyanate adsorption at copper and gold electrodes as probed by in situ infrared and surface-enhanced Raman spectroscopy (Bron, Holze) 105

Derivative method
A simple derivative method of analysing steady state current–potential curves (Kakiuchi) 135

Differential capacity
The intrinsic pK_a values for phosphatidic acid in monolayers deposited on mercury electrodes (Moncelli, Becucci) 183

Digital simulation
The current for a two-electron reaction is not necessarily twice that of a one-electron reaction (Rongfeng, Evans) 201

Electroactivity
Access in clay-modified electrodes: effects of pH and film thickness on the electrochemical activity of gallery exchange ions and surface ion pairs (Kaviratna, Pinnavaia) 163

Electroadsorption
Adsorption of Cl^- and Br^- ions on the (001) plane of a bismuth single crystal from solutions in 2-propanol (Väärtnõu et al.) 115
Electrocatalysis
Selective oxidation of lactose to lactobionic acid on lead-adatoms modified platinum electrodes in $Na_2CO_3 + NaHCO_3$ buffered medium (Druliolle et al.) 77
Surface copper immobilization by chelation of alizarin complexone and electrodeposition on graphite electrodes, and related hydrogen sulfide electrochemistry; matrix isolation of atomic copper and molecular copper sulfides on a graphite electrode (Zhang et al.) 191
Electrocatalytic reduction
Selective electrocatalysis for CO_2 reduction in the aqueous phase using cobalt phthalocyanine/poly-4-vinylpyridine modified electrodes (Yoshida et al.) 209
Study of the electrocatalytic reduction of nitrite with silicotungstic heteropolyanion (Dong et al.) 227
Electrodeposition
Electrochemical approaches to $GaAs_{1-x}Sb_x$ thin films (Andreoli et al.) 265
Electrodimerization
Channel electrode voltammetry and electrodimerization processes. The electro-oxidation of tris(dithiocarbamato)cobalt(III) complexes (Compton et al.) 249
Electro-oxidation
Halide catalysis of the electrochemical oxidation of gold in acetonitrile (Kissner) 71
The current for a two-electron reaction is not necessarily twice that of a one-electron reaction (Rongfeng, Evans) 201
Channel electrode voltammetry and electrodimerization processes. The electro-oxidation of tris(dithiocarbamato)cobalt(III) complexes (Compton et al.) 249
Electroreduction
Electrochemical behaviour of 2-(4′-hydroxybenzeneazo)benzoic-acid at pyrolytic graphite electrodes (Goyal, Bansal) 25
Oxygen reduction on copper in neutral NaCl solution (King et al.) 45
Electro reduction
The current for a two-electron reaction is not necessarily twice that of a one-electron reaction (Rongfeng, Evans) 201
Electrostatic interactions
Theoretical studies of electrode potentials in aqueous solution. Investigation of individual contributions from electrostatic, cavity and dispersion interactions to redox potentials (Jalali-Heravi et al.) 1

Film thickness
Nanoscale thickness changes of nickel hydroxide films during electrochemical oxidation/reduction monitored by in situ atomic force microscopy (Häring, Kötz) 273
Film thickness effects
Access in clay-modified electrodes: effects of pH and film thickness on the electrochemical activity of gallery exchange ions and surface ion pairs (Kaviratna, Pinnavaia) 163
Free ligands
Competitive adsorption versus surface complexation as models for the simultaneous adsorption of metal complexes and free ligands (Guaus et al.) 121

$GaAs_{1-x}Sb_x$ thin films
Electrochemical approaches to $GaAs_{1-x}Sb_x$ thin films (Andreoli et al.) 265
Galvanostatic oscillations
Modelling oscillations in galvanostatic H_2 oxidation at Pt in the presence of metal ions (Wolf et al.) 85
Gas chromatography-mass spectroscopy
Selective oxidation of lactose to lactobionic acid on lead-adatoms modified platinum electrodes in $Na_2CO_3 + NaHCO_3$ buffered medium (Druliolle et al.) 77
Gouy–Chapman theory
The intrinsic pK_a values for phosphatidic acid in monolayers deposited on mercury electrodes (Moncelli, Becucci) 183

Halide ions
Adsorption of Cl^- and Br^- ions on the (001) plane of a bismuth single crystal from solutions in 2-propanol (Väärtnõu et al.) 115
pH effects
Access in clay-modified electrodes: effects of pH and film thickness on the electrochemical activity of gallery exchange ions and surface ion pairs (Kaviratna, Pinnavaia) 163
^1H NMR
Selective oxidation of lactose to lactobionic acid on lead-adatoms modified platinum electrodes in $Na_2CO_3 + NaHCO_3$ buffered medium (Druliolle et al.) 77
H_2 oxidation
Modelling oscillations in galvanostatic H_2 oxidation at Pt in the presence of metal ions (Wolf et al.) 85
Hydrogen evolution reaction
Transport of protons and water through polyaniline membranes studied with on-line mass spectrometry (Schmidt et al.) 149
Hydrogen sulfide
Surface copper immobilization by chelation of alizarin complexone and electrodeposition on graphite electrodes, and related hydrogen sulfide electrochemistry; matrix isolation of atomic copper and molecular copper sulfides on a graphite electrode (Zhang et al.) 191
2-(4′-Hydroxybenzeneazo)benzoic-acid
Electrochemical behaviour of 2-(4′-hydroxybenzeneazo)benzoic-acid at pyrolytic graphite electrodes (Goyal, Bansal) 25

Impedance spectra
A study of the effect of mechanical abrasion on the relaxation behaviour of natural galena electrodes. Relationship with flotation (Pauporté, Schuhmann) 9
Infrared spectroscopy
Cyanate and thiocyanate adsorption at copper and gold electrodes as probed by in situ infrared and surface-enhanced Raman spectroscopy (Bron, Holze) 105
Interfaces
The surface potential shift upon adsorption at the air|solution and the uncharged Hg|solution interfaces (Nikitas, Pappa-Louisi) 257
Ionic chromatography
Selective oxidation of lactose to lactobionic acid on lead-adatoms modified platinum electrodes in $Na_2CO_3 + NaHCO_3$ buffered medium (Druliolle et al.) 77

Lactobionic acid
Selective oxidation of lactose to lactobionic acid on lead-adatoms modified platinum electrodes in $Na_2CO_3 + NaHCO_3$ buffered medium (Druliolle et al.) 77
Lactose
Selective oxidation of lactose to lactobionic acid on lead-adatoms modified platinum electrodes in $Na_2CO_3 + NaHCO_3$ buffered medium (Druliolle et al.) 77

Mathematical models
Theoretical studies of electrode potentials in aqueous solution. Investigation of individual contributions from electrostatic, cavity and dispersion interactions to redox potentials (Jalali-Heravi et al.) 1

Stepped-potential voltammetries at stationary electrodes. Part 1. Differential staircase, differential pulse and square-wave voltammetries (Krulic et al.) 33
Modelling oscillations in galvanostatic H_2 oxidation at Pt in the presence of metal ions (Wolf et al.) 85
Competitive adsorption versus surface complexation as models for the simultaneous adsorption of metal complexes and free ligands (Guaus et al.) 121
The surface potential shift upon adsorption at the air|solution and the uncharged Hg|solution interfaces (Nikitas, Pappa-Louisi) 257

Mercury electrode
Orientation of molecules of aliphatic alcohols adsorbed on a mercury electrode surface. Analysis of steric factors of inhibited electrode reactions and quantum-chemical calculations (Romanowski et al.) 95

Metal complexes
Competitive adsorption versus surface complexation as models for the simultaneous adsorption of metal complexes and free ligands (Guaus et al.) 121

Microelectrodes
Effects of cell design on electrochemical measurements in submicroliter volumes (Clark et al.) 157

Modified electrodes
SERS and resonance Raman studies of *p*-aminoazobenzene on gold and silver electrodes (Jamkowski et al.) 177

Modified graphite electrodes
Surface copper immobilization by chelation of alizarin complexone and electrodeposition on graphite electrodes, and related hydrogen sulfide electrochemistry; matrix isolation of atomic copper and molecular copper sulfides on a graphite electrode (Zhang et al.) 191

Molten carbonate fuel cell
Solubility of in-situ oxidized NiO in (62 + 38)mol.%$(Li + K)CO_3$ melt under pressurized conditions (Yamada, Uchida) 57

Nickel hexacyano ferates
Polynuclear nickel hexacyanoferrates: monitoring of film growth and hydrated counter-cation flux/storage during redox reactions (Bácskai et al.) 241

Nickel hydroxide films
Nanoscale thickness changes of nickel hydroxide films during electrochemical oxidation/reduction monitored by in situ atomic force microscopy (Häring, Kötz) 273

NiO cathode
Solubility of in-situ oxidized NiO in (62 + 38)mol.%$(Li + K)CO_3$ melt under pressurized conditions (Yamada, Uchida) 57

Nitrite
Study of the electrocatalytic reduction of nitrite with silicotungstic heteropolyanion (Dong et al.) 227

Non-conducting materials
The electrochemical response of radiation defects of non-conducting materials. An electrochemical access to age determinations (Scholz et al.) 139

Oligomerization
SERS and resonance Raman studies of *p*-aminoazobenzene on gold and silver electrodes (Jamkowski et al.) 177

One-electron reaction
The current for a two-electron reaction is not necessarily twice that of a one-electron reaction (Rongfeng, Evans) 201

On line mass spectrometry
Transport of protons and water through polyaniline membranes studied with on-line mass spectrometry (Schmidt et al.) 149

Oxidation
Nanoscale thickness changes of nickel hydroxide films during electrochemical oxidation/reduction monitored by in situ atomic force microscopy (Häring, Kötz) 273

Oxygen
Oxygen reduction on copper in neutral NaCl solution (King et al.) 45

Palladium
Palladium-catalysed electrochemical reduction of vinyl and aryl triflates (Chiarotto et al.) 235

Passivation
Halide catalysis of the electrochemical oxidation of gold in acetonitrile (Kissner) 71

Perchlorate ions
The reduction of ClO_4^- ions on Rh electrodes (Wasberg, Horányi) 63

Permeation
Transport of protons and water through polyaniline membranes studied with on-line mass spectrometry (Schmidt et al.) 149

Phospholipids
The intrinsic pK_a values for phosphatidic acid in monolayers deposited on mercury electrodes (Moncelli, Becucci) 183

Photoconductivity
A study of the effect of mechanical abrasion on the relaxation behaviour of natural galena electrodes. Relationship with flotation (Pauporté, Schuhmann) 9

Potassium alkyl xanthates
Conductance behaviour of certain potassium alkyl xanthates in dimethylsulphoxide + water at 25°C (Srivastava, Jagasia) 171

Pressurized condition
Solubility of in-situ oxidized NiO in (62 + 38)mol.%$(Li + K)CO_3$ melt under pressurized conditions (Yamada, Uchida) 57

Pyrolytic graphite electrodes
Electrochemical behaviour of 2-(4′-hydroxybenzeneazo)benzoic-acid at pyrolytic graphite electrodes (Goyal, Bansal) 25

Radiation defects
The electrochemical response of radiation defects of non-conducting materials. An electrochemical access to age determinations (Scholz et al.) 139

Reaction mechanisms
Mechanistic study of photoelectrochemical reactions: photo-transient characterization of CE processes (Compton et al.) 143

Reduction
Palladium-catalysed electrochemical reduction of vinyl and aryl triflates (Chiarotto et al.) 235
Nanoscale thickness changes of nickel hydroxide films during electrochemical oxidation/reduction monitored by in situ atomic force microscopy (Häring, Kötz) 273

Reduction mechanism
The reduction of ClO_4^- ions on Rh electrodes (Wasberg, Horányi) 63

Resonance Raman spectra
SERS and resonance Raman studies of *p*-aminoazobenzene on gold and silver electrodes (Jamkowski et al.) 177

Reverse pulse polarography
Impact of spherical diffusion on metal speciation by reverse pulse polarography (Pinheiro, Van Leeuwen) 279

Rhodium
The reduction of ClO_4^- ions on Rh electrodes (Wasberg, Horányi) 63

Saline environment
Oxygen reduction on copper in neutral NaCl solution (King et al.) 45

Semiconductivity
A study of the effect of mechanical abrasion on the relaxation behaviour of natural galena electrodes. Relationship with flotation (Pauporté, Schuhmann) 9
Simultaneous adsorption
Competitive adsorption versus surface complexation as models for the simultaneous adsorption of metal complexes and free ligands (Guaus et al.) 121
Solubility
Solubility of in-situ oxidized NiO in (62 + 38)mol.%(Li + K)CO_3 melt under pressurized conditions (Yamada, Uchida) 57
Spherical diffusion
Impact of spherical diffusion on metal speciation by reverse pulse polarography (Pinheiro, Van Leeuwen) 279
Statistical thermodynamics
Competitive adsorption versus surface complexation as models for the simultaneous adsorption of metal complexes and free ligands (Guaus et al.) 121
Stepped-potential voltammetry
Stepped-potential voltammetries at stationary electrodes. Part 1. Differential staircase, differential pulse and square-wave voltammetries (Krulic et al.) 33
Surface-enhanced Raman spectroscopy
Cyanate and thiocyanate adsorption at copper and gold electrodes as probed by in situ infrared and surface-enhanced Raman spectroscopy (Bron, Holze) 105

Thermal annealing
Electrochemical approaches to $GaAs_{1-x}Sb_x$ thin films (Andreoli et al.) 265
Thiocyanate adsorption
Cyanate and thiocyanate adsorption at copper and gold electrodes as probed by in situ infrared and surface-enhanced Raman spectroscopy (Bron, Holze) 105
Transport processes
Transport of protons and water through polyaniline membranes studied with on-line mass spectrometry (Schmidt et al.) 149
Tris(dithiocarbamato)cobalt(III) complexes
Channel electrode voltammetry and electrodimerization processes. The electro-oxidation of tris(dithiocarbamato)cobalt(III) complexes (Compton et al.) 249

Vinyl triflates
Palladium-catalysed electrochemical reduction of vinyl and aryl triflates (Chiarotto et al.) 235